

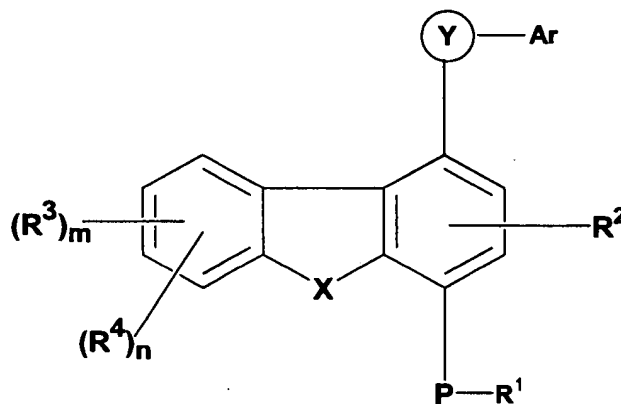
Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in this application.

1. (Previously Presented) A compound of Formula (I)



(1)

wherein:

R^1 is substituted or unsubstituted alkyl;

R^2 is hydrogen;

R^3 is hydrogen;

R^4 is $-NR^5R^6$, with the proviso that R^4 is not NH_2 ;

R^5 and R^6 may be same or different and are independently selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, substituted or unsubstituted heteroaryl, substituted or unsubstituted heterocyclic ring, substituted or unsubstituted heterocyclalkyl, $-C(O)-R^a$, $-C(O)O-R^a$, $-C(O)NR^aR^a$, $-S(O)_q-R^a$, $-S(O)_q-NR^aR^a$, $-C(=S)-NR^aR^a$, $-C(=S)-R^a$, $-N=C(R^aR^a)$, or $-NR^aR^a$;

Ar is selected from the group consisting of substituted or unsubstituted aryl and substituted and unsubstituted heteroaryl ring;

X is selected from the group consisting of O and $S(O)_q$;

Y is $-C(O)NH$;

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

P is selected from the group consisting of O and S;

m is 0;

n is 1;

q represents 0, 1 or 2;

R^a is selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, or substituted or unsubstituted heterocyclic ring; or a N-oxide thereof, or a pharmaceutically acceptable salt thereof, wherein the substituents in the substituted groups may be the same or different and in which one or more are selected from the group consisting of hydroxy, halogen, carboxyl, cyano, nitro, oxo (=O), thio (=S), substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted cycloalkenyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted heterocyclalkyl ring, substituted or unsubstituted heteroarylalkyl, substituted or unsubstituted heterocyclic ring, substituted or unsubstituted guanidine, $-\text{COOR}^x$, $-\text{C(O)R}^x$, $-\text{C(S)R}^x$, $-\text{C(O)NR}^x\text{R}^y$, $-\text{C(O)ONR}^x\text{R}^y$, $-\text{NR}^x\text{CONR}^y\text{R}^z$, $-\text{N(R}^x\text{)SOR}^y$, $-\text{N(R}^x\text{)SO}_2\text{R}^y$, $-(=\text{N-N(R}^x\text{)R}^y)$, $-\text{NR}^x\text{C(O)OR}^y$, $-\text{NR}^x\text{R}^y$, $-\text{NR}^x\text{C(O)R}^y$, $-\text{NR}^x\text{C(S)R}^y$, $-\text{NR}^x\text{C(S)NR}^y\text{R}^z$, $-\text{SONR}^x\text{R}^y$, $-\text{SO}_2\text{NR}^x\text{R}^y$, $-\text{OR}^x$, $-\text{OR}^x\text{C(O)NR}^y\text{R}^z$, $-\text{OR}^x\text{C(O)OR}^y$, $-\text{OC(O)R}^x$, $-\text{OC(O)NR}^x\text{R}^y$, $-\text{R}^x\text{NR}^y\text{C(O)R}^z$, $-\text{R}^x\text{OR}^y$, $-\text{R}^x\text{C(O)OR}^y$, $-\text{R}^x\text{C(O)NR}^y\text{R}^z$, $-\text{R}^x\text{C(O)R}^x$, $-\text{R}^x\text{OC(O)R}^y$, $-\text{SR}^x$, $-\text{SOR}^x$, $-\text{SO}_2\text{R}^x$, or $-\text{ONO}_2$, wherein R^x , R^y and R^z in each of the above groups can be hydrogen atom, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted cycloalkenyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted heterocyclalkyl ring, substituted or unsubstituted heteroarylalkyl, or substituted or unsubstituted heterocyclic ring.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

2. (Currently Amended) The compound according to claim 1, wherein Ar is optionally substituted phenyl, optionally substituted pyrimidine, optionally substituted 4-pyridyl, optionally substituted 3-pyridyl, optionally substituted 2-pyridyl, optionally substituted 4-pyridyl-N-oxide, optionally substituted 3-pyridyl-N-oxide ~~and~~ or optionally substituted 2-pyridyl-N-oxide in which the optional substituents (one or more) may be same or different and are independently selected from the ~~groups~~ group consisting of hydrogen, hydroxyl, halogen, cyano, nitro, carboxyl, trifluoroalkyl, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkylcarbonyl, substituted or unsubstituted alkylcarbonyloxy, substituted or unsubstituted amino or mono or di substituted or unsubstituted alkylamino.

3. (Canceled)

4. (Previously Presented) The compound according to claim 1, wherein R¹ is unsubstituted alkyl.

5. (Original) The compound according to claim 4, wherein R¹ is methyl.

6. (Original) The compound according to claim 1, wherein R¹ is substituted alkyl.

7. (Original) The compound according to claim 6, wherein R¹ is -CHF₂.

8. (Original) The compound according to claim 1, wherein P is O.

9. (Previously Presented) The compound according to claim 1, wherein X is chosen from the group consisting of O and S.

10. (Original) The compound according to claim 9, wherein X = O.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

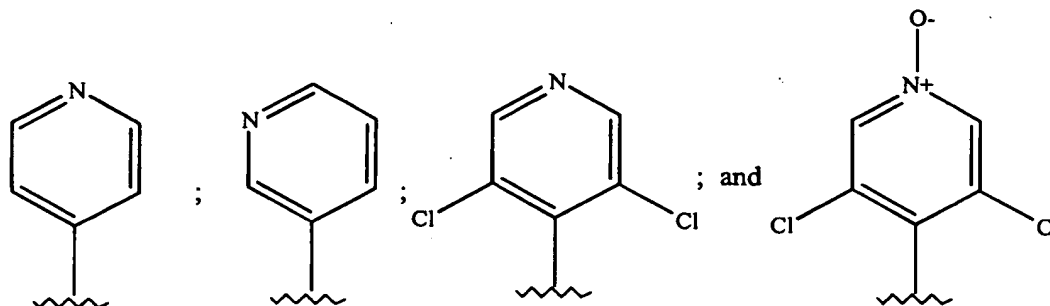
11. (Canceled)

12. (Previously Presented) The compound according to claim 1, wherein Ar is selected from the group consisting of substituted or unsubstituted 4-pyridyl, substituted or unsubstituted 4-pyridyl-N-oxide, or substituted or unsubstituted 3-pyridyl.

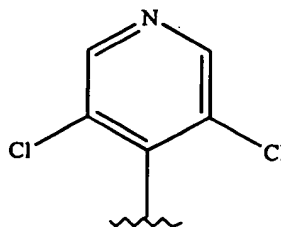
13. (Previously Presented) The compound according to claim 12, wherein said substituent in the substituted pyridyl group is a halogen.

14. (Original) The compound according to claim 13, wherein said halogen is chloro.

15. (Previously Presented) The compound according to claim 12, wherein Ar is selected from the group consisting of



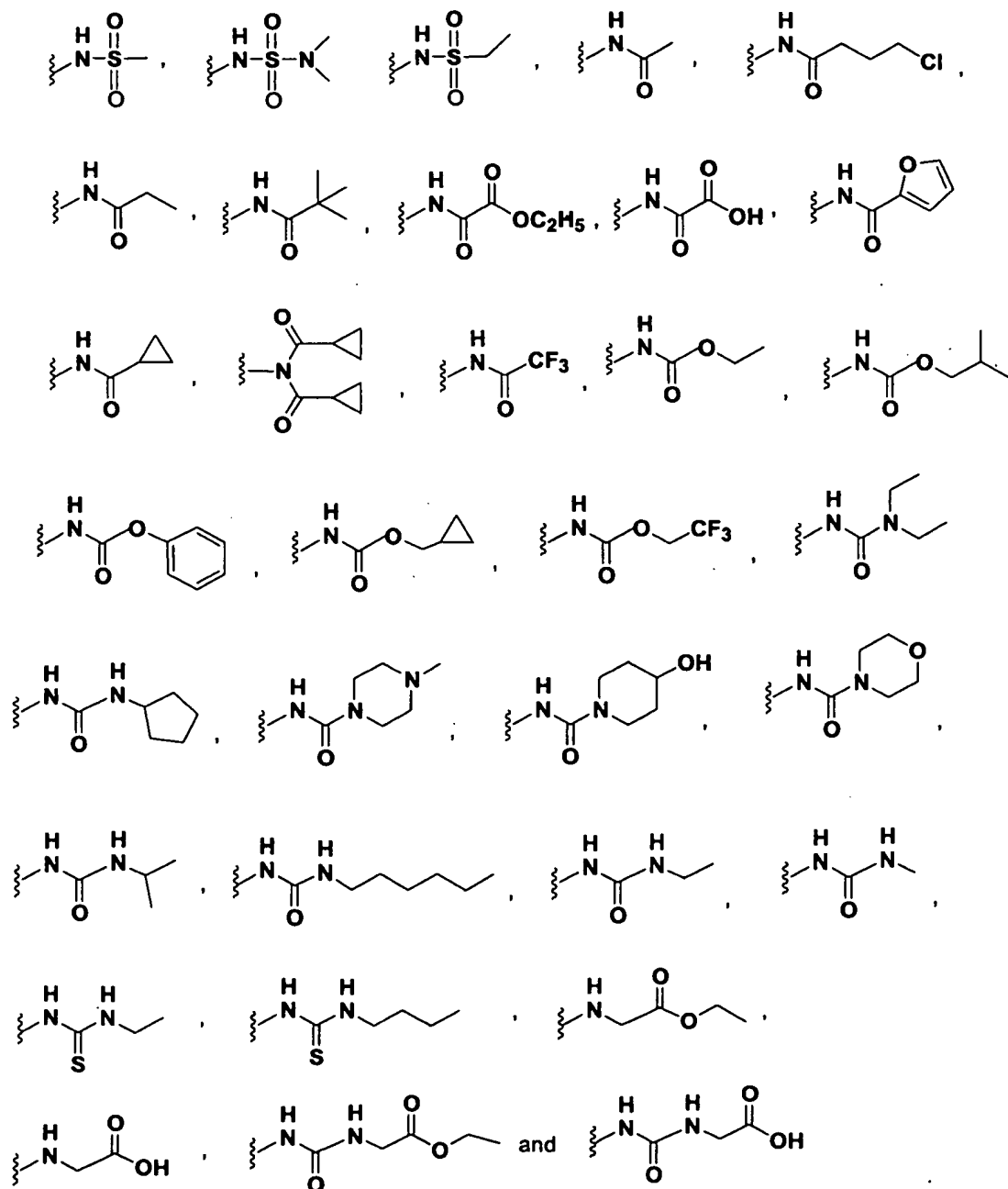
16. (Original) The compound according to claim 15, wherein Ar is



Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

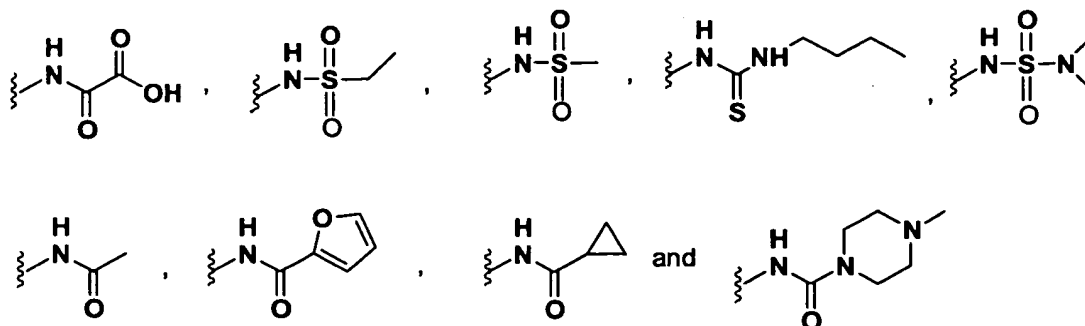
17. (Currently Amended) The compound according to claim 1 wherein R⁴ is selected from the group consisting of



Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

18. (Previously Presented) The compound according to claim 17 wherein R⁴ is selected from the group consisting of



19. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-methanesulfonylamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

20. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(N,N-dimethylaminosulfonylamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

21. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(ethanesulfonylamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

22. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

23. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(3-chloropropylcarboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

24. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-ethylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

25. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-t-butylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

26. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-ethoxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

27. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-hydroxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

28. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-hydroxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide sodium salt.

29. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(fur-2-yl-carboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

30. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(cyclopropylcarbonylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

31. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(N,N-dicyclopropylcarbonylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

32. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-trifluoroacetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

33. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-ethoxycarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

34. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-isobutyloxycarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

35. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-phenoxy-carboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

36. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-cyclopropylmethoxycarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

37. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-trifluoromethylmethoxycarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

38. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-N,N-diethylaminocarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

39. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-cyclopentylaminocarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

40. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(N-methylpiperazin-4-yl carboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

41. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(N-methylpiperazin-4-yl carboxamido)-dibenzo[b,d]furan-1-carboxamide hydrochloride.

42. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(4-hydroxypiperidin-1-yl carboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

43. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(morphol-4-yl carboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

44. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-isopropylamino carboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

45. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-n-hexylamino carboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

46. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-ethylamino carboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

47. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-methylamino carboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

48. (Previously Presented) N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-methanesulfonamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

49. (Previously Presented) N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-methanesulfonamido-dibenzo[b,d]furan-1-carboxamide sodium salt.

50. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-ethanesulfonamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

51. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-N,N-dimethylaminosulfonamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

52. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

53. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-(1-chloropropylcarboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

54. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-cyclopropylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

55. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-ethoxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

56. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-hydroxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

57. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-hydroxycarbonylcarboxamido-dibenzo[b,d]furan-1-carboxamide di sodium salt.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

58. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-fur-2-ylcarboxamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

59. (Previously Presented) A compound according to claim 1, wherein the compound is N1-phenyl-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

60. (Previously Presented) A compound according to claim 1, wherein the compound is N1-(4-methoxyphenyl)-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

61. (Canceled)

62. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(ethylaminothiocarboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

63. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(n-butylaminothiocarboxamido)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

64. (Previously Presented) A compound according to claim 1, wherein the compound is N1-(pyrid-3-yl)-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

65. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide-N-oxide or a pharmaceutically acceptable salt thereof.

66. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-methanesulfonamido-dibenzo[b,d]furan-1-carboxamide-N-oxide or a pharmaceutically acceptable salt thereof.

67. (Previously Presented) A compound according to claim 1, wherein the compound is N-(pyrid-4-yl)-4-methoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

68. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(2-ethoxy-2-oxo-ethylaminocarbonylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

69. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(2-hydroxy-2-oxo-ethylaminocarbonylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

70. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(2-ethoxy-2-oxo-ethylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

71. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-methoxy-8-(2-hydroxy-2-oxo-ethylamino)-dibenzo[b,d]furan-1-carboxamide or a pharmaceutically acceptable salt thereof.

Application No. 10/821,642
Preliminary Amendment

Docket No.: 04654/1200494-US1

72-75. (Canceled)

76. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-methanesulfonamido-dibenzo[b,d]furan-1-carboxamide disodium salt.

77. (Previously Presented) A compound according to claim 1, wherein the compound is N-(3,5-dichloropyrid-4-yl)-1-methoxy-6-acetamido-dibenzo[b,d]thiophene-4-carboxamide or a pharmaceutically acceptable salt thereof.

78. (Original) A N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-acetamido-dibenzo[b,d]furan-1-carboxamide sodium salt.

79. (Original) A N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-fur-2-ylcarboxamido-dibenzo[b,d]furan-1-carboxamide sodium salt.

80. (Previously Presented) N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-methane sulfonamido-dibenzo[d,b]furan-1-carboxamide-N-oxide or a pharmaceutically acceptable salt thereof.

81-91. (Canceled)

92. (Previously Presented) N-(3,5-dichloropyrid-4-yl)-4-difluoromethoxy-8-methanesulfonamido-dibenzo[b,d]furan-1-carboxamide monosodium salt.